Index of Claims

| Application No. | Applicant(s)   |  |
|-----------------|----------------|--|
| 09/858,058      | FREEMAN ET AL. |  |
| Examiner        | Art Unit       |  |
| David Y Jung    | 2134           |  |

| 1 | Rejected |  |
|---|----------|--|
| - | Allowed  |  |

| _ | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| ÷ | Restricted                     |

| N | Non-Elected  |
|---|--------------|
| ı | Interference |

| A | Appeal   |
|---|----------|
| 0 | Objected |

|             |                                                                                                                                                   |                                                  |              |          |              |                                                  | l        |              |              |                     |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|--------------|----------|--------------|--------------------------------------------------|----------|--------------|--------------|---------------------|
| -           |                                                                                                                                                   | r                                                |              |          | -            | 2-4                                              |          |              |              |                     |
| Cla         |                                                                                                                                                   | <u> </u>                                         | _            |          | _'           | Date                                             | •        |              |              |                     |
| _           | Original                                                                                                                                          | ¥                                                |              |          |              |                                                  |          |              |              |                     |
| Final       | ği                                                                                                                                                | 2/20/04                                          |              |          |              |                                                  |          |              |              |                     |
| ١ ٣ ١       | ō                                                                                                                                                 | 2,                                               |              |          |              |                                                  |          |              |              |                     |
|             | l                                                                                                                                                 | <u> </u>                                         |              | -        |              |                                                  | _        |              | _            |                     |
| -           | 1<br>2<br>3<br>4<br>5<br>6<br>7                                                                                                                   | ī                                                |              |          |              | $\vdash$                                         |          |              | -            | H                   |
|             | 3                                                                                                                                                 | H                                                | _            | H        |              | H                                                |          |              |              |                     |
| <u> </u>    | 3                                                                                                                                                 | Н                                                | _            | -        | <del> </del> | $\vdash$                                         | _        |              |              |                     |
| }           | -                                                                                                                                                 | Н                                                |              | $\vdash$ |              | -                                                |          | _            | _            | $\vdash$            |
| <b>-</b>    | 6                                                                                                                                                 | H                                                |              | $\vdash$ | _            |                                                  | _        | _            | _            | $\vdash$            |
|             | 7                                                                                                                                                 | +                                                |              | -        | _            | Н                                                | _        |              |              | $\vdash$            |
|             | 8                                                                                                                                                 | 1                                                |              | $\vdash$ | $\vdash$     | -                                                | -        | $\vdash$     |              | _                   |
| -           | 9                                                                                                                                                 | 1                                                |              | $\vdash$ | $\vdash$     |                                                  |          | $\vdash$     | _            |                     |
|             | 10                                                                                                                                                |                                                  | <u> </u>     | Н        | $\vdash$     | -                                                |          | $\vdash$     | _            |                     |
|             | 11                                                                                                                                                |                                                  |              | Ħ        | Н            | _                                                |          |              |              |                     |
|             | 12                                                                                                                                                | H                                                |              |          | $\vdash$     |                                                  |          |              |              | П                   |
|             | 13                                                                                                                                                | $\sqcap$                                         |              | Г        |              |                                                  | _        |              |              |                     |
|             | 14                                                                                                                                                | 口                                                | Т            |          |              |                                                  |          |              |              |                     |
|             | 15                                                                                                                                                | П                                                |              |          |              |                                                  |          |              |              |                     |
|             | 9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22<br>23<br>24<br>25<br>26<br>27<br>28<br>29<br>30<br>31<br>32<br>33 | $\sqcap$                                         |              |          |              |                                                  |          |              |              |                     |
|             | 17                                                                                                                                                | Π                                                |              |          |              |                                                  |          | Г            |              |                     |
|             | 18                                                                                                                                                | П                                                |              | Г        |              |                                                  |          |              |              |                     |
|             | 19                                                                                                                                                | П                                                |              |          |              |                                                  |          |              |              |                     |
|             | 20                                                                                                                                                | П                                                |              |          |              |                                                  |          |              |              |                     |
|             | 21                                                                                                                                                | 7                                                |              |          |              |                                                  |          |              |              |                     |
|             | 22                                                                                                                                                | П                                                |              |          |              |                                                  |          |              |              |                     |
|             | 23                                                                                                                                                | $\Gamma$                                         |              |          |              |                                                  |          |              |              |                     |
|             | 24                                                                                                                                                |                                                  |              |          |              |                                                  |          |              |              |                     |
|             | 25                                                                                                                                                | 1                                                |              |          |              | L                                                |          |              | <u> </u>     |                     |
|             | 26                                                                                                                                                | =                                                |              |          |              |                                                  | _        |              |              |                     |
|             | 27                                                                                                                                                |                                                  |              |          | _            |                                                  | _        |              |              |                     |
|             | 28                                                                                                                                                |                                                  |              |          |              | L                                                |          |              |              | Ш                   |
|             | 29                                                                                                                                                |                                                  |              |          |              |                                                  | _        |              |              | Ш                   |
|             | 30                                                                                                                                                |                                                  |              |          |              | ļ                                                | _        |              |              | Щ                   |
|             | 31                                                                                                                                                |                                                  |              |          |              | _                                                |          | $oxed{oxed}$ | $oxed{oxed}$ | Щ                   |
|             | 32                                                                                                                                                | _                                                |              | _        |              | _                                                | L        | $oxed{oxed}$ |              | Щ                   |
|             | 33                                                                                                                                                | ⊢                                                | <u> </u>     | _        | ļ            | <u> </u>                                         | <u> </u> | $\vdash$     | $\vdash$     | Н                   |
|             | 34<br>35                                                                                                                                          | <u> </u>                                         | <u> </u>     | <u> </u> | <u> </u>     |                                                  | <u> </u> | $\vdash$     | _            | Н                   |
| <u> </u>    | 35                                                                                                                                                | ├                                                | <u> </u>     | _        | <u> </u>     |                                                  | <u> </u> | <u> </u>     | $\vdash$     | $\vdash \vdash$     |
|             | 36<br>37                                                                                                                                          | ┢                                                | ├            | <u> </u> | <u> </u>     | $\vdash$                                         | <u> </u> |              | <u> </u>     | $\vdash\vdash$      |
|             | 3/                                                                                                                                                | ├-                                               | $\vdash$     |          | <u> </u>     | $\vdash$                                         | $\vdash$ | $\vdash$     | $\vdash$     | $\vdash \vdash$     |
| <b></b>     | 38<br>39                                                                                                                                          | <u> </u>                                         | ├            | ⊢        | <u> </u>     | ⊨                                                | -        | <u> </u>     | ├            | $\vdash$            |
| -           | 40                                                                                                                                                | -                                                | $\vdash$     | $\vdash$ | -            | -                                                | ⊢        |              | ┢            | $\vdash \vdash$     |
|             | 41                                                                                                                                                | $\vdash$                                         | $\vdash$     | <u> </u> | $\vdash$     | $\vdash$                                         | <u> </u> | $\vdash$     | $\vdash$     | Н                   |
|             | 42                                                                                                                                                | -                                                | $\vdash$     | -        | $\vdash$     | $\vdash$                                         | $\vdash$ | $\vdash$     | -            | ${f H}$             |
| <del></del> | 43                                                                                                                                                | $\vdash$                                         | ⊢            | $\vdash$ | <u> </u>     | -                                                | -        |              | $\vdash$     | H                   |
| -           | 43                                                                                                                                                | <u> </u>                                         | $\vdash$     | $\vdash$ | <u> </u>     | $\vdash$                                         | $\vdash$ | -            | $\vdash$     | H                   |
|             | 45                                                                                                                                                | $\vdash$                                         | $\vdash$     | $\vdash$ | $\vdash$     | $\vdash$                                         | $\vdash$ | -            | $\vdash$     | ${f H}$             |
|             | 46                                                                                                                                                | ┝                                                | $\vdash$     |          | -            |                                                  | <u> </u> | -            | $\vdash$     | ${oldsymbol{dash}}$ |
| -           | 47                                                                                                                                                | $\vdash$                                         | ┢            | $\vdash$ | $\vdash$     | <del>                                     </del> | -        | -            | $\vdash$     | $\vdash \vdash$     |
|             | 48                                                                                                                                                | $\vdash$                                         | <del> </del> | _        | $\vdash$     | $\vdash$                                         | ┢╾       | -            | $\vdash$     | Н                   |
| <b></b>     | 49                                                                                                                                                | <del>                                     </del> | $\vdash$     | H        | $\vdash$     |                                                  | $\vdash$ | <u> </u>     | <del> </del> | Н                   |
|             | 50                                                                                                                                                |                                                  | $\vdash$     | $\vdash$ |              | <del>                                     </del> | ┢        |              | $\vdash$     | $\vdash$            |
| 1           | ,                                                                                                                                                 |                                                  |              |          |              |                                                  |          |              |              | . ,                 |

| Cla   | im             | Date                                |                                                  |              |              |              |              |              |              |              |
|-------|----------------|-------------------------------------|--------------------------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Final | Original       |                                     |                                                  |              |              |              |              |              |              |              |
|       | 51<br>52       |                                     |                                                  |              |              |              |              |              |              |              |
|       | 52             |                                     |                                                  |              |              |              |              |              |              |              |
|       | 53             |                                     |                                                  |              |              |              |              |              |              |              |
|       | 54             | L                                   |                                                  |              |              |              |              |              |              |              |
|       | 55             |                                     |                                                  |              |              |              |              |              |              | _            |
|       | 56             |                                     |                                                  |              |              |              |              |              |              |              |
|       | 57             |                                     |                                                  |              |              | _            |              |              |              | _            |
|       | 58             |                                     |                                                  |              |              |              |              |              | _            | <u> </u>     |
|       | 59             |                                     |                                                  |              |              |              |              |              |              |              |
|       | 60             |                                     |                                                  |              | Н            |              |              |              |              |              |
|       | 61<br>62       |                                     | _                                                |              |              | -            | _            | $\vdash$     | _            | _            |
|       | 63             | $\vdash$                            |                                                  | H            | Н            |              | -            | -            | <del> </del> | -            |
| -     | 64             | -                                   | <del>                                     </del> | ┝            | -            | $\vdash$     | -            | H            | H            | H            |
|       | 65             | -                                   |                                                  |              |              |              | -            |              |              |              |
|       | 66             |                                     |                                                  | _            |              |              |              |              |              |              |
|       | 67             |                                     |                                                  |              |              |              |              |              |              |              |
|       | 68             |                                     |                                                  |              |              |              |              |              |              |              |
|       | 69             |                                     |                                                  |              |              |              |              |              |              |              |
|       | 70             |                                     |                                                  |              |              |              |              |              |              |              |
|       | 71<br>72       |                                     |                                                  |              |              |              |              |              |              |              |
|       | 72             |                                     |                                                  |              |              |              |              |              |              |              |
|       | 73<br>74<br>75 |                                     |                                                  |              |              |              |              |              |              |              |
|       | 74             |                                     |                                                  |              |              |              | L            |              |              |              |
|       | 75             |                                     |                                                  | _            | Ш            |              | Ш            |              |              |              |
|       | 76<br>77       | L                                   | _                                                | _            |              | _            | Ш            | !            |              | _            |
|       | 70             | $\vdash$                            | _                                                |              | _            |              | H            |              | ļ            | _            |
|       | 78             | $\vdash$                            | $\vdash$                                         | $\vdash$     | _            |              | _            |              | _            | _            |
|       | 79<br>80       | $\vdash$                            | _                                                | -            |              |              | -            |              | _            | -            |
|       | 81             | $\vdash$                            | $\vdash$                                         | _            | $\vdash$     | _            | $\vdash$     | _            | _            | <del> </del> |
|       | 82             | -                                   |                                                  | $\vdash$     | $\vdash$     | _            | Н            | _            |              | -            |
|       | 83             | $\vdash$                            | _                                                | $\vdash$     |              |              | Н            |              | _            | -            |
|       | 84             | H                                   |                                                  |              |              |              |              |              | _            | _            |
|       | 85             |                                     |                                                  |              |              |              |              |              |              |              |
|       | 86             |                                     |                                                  |              |              |              | Г            |              |              |              |
|       | 87             |                                     |                                                  |              |              |              |              |              |              |              |
|       | 88             |                                     |                                                  |              |              |              |              |              |              |              |
|       | 89             |                                     |                                                  |              |              |              |              |              |              |              |
|       | 90             |                                     |                                                  |              |              |              |              |              |              |              |
|       | 91             | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ |                                                  |              |              |              | L            |              | <u> </u>     |              |
|       | 92             | ļ                                   | <u> </u>                                         | L            | $oxed{oxed}$ | L.           | L            | L            | <u> </u>     | <u> </u>     |
|       | 93             | <u> </u>                            | L                                                | <u> </u>     | _            | <u> </u>     |
|       | 94_            | <u> </u>                            |                                                  | <u> </u>     | _            | <u> </u>     | L            | ļ            | <u> </u>     | <u> </u>     |
|       | 95             | ⊢                                   | $\vdash$                                         | <u> </u>     | _            | $\vdash$     | <b> </b>     | ļ            | <u> </u>     | _            |
|       | 96             | $\vdash$                            | _                                                | _            |              | _            | <u> </u>     | -            | <u> </u>     | $\vdash$     |
|       | 97             | ⊢                                   | $\vdash$                                         | <u> </u>     | $\vdash$     | <del> </del> | ⊢            | <u> </u>     | ļ            | <u> </u>     |
|       | 98             | ├                                   | $\vdash$                                         | <u> </u>     | $\vdash$     | $\vdash$     | <del> </del> | —            | -            | $\vdash$     |
|       | 99             | -                                   | <del> </del>                                     | <del> </del> | ├-           |              | ├-           | <del> </del> | ├—           | $\vdash$     |

| CI           | aim                                                  | _                                                |              |              |              | Date                                             |                                                  |               |                                                  | _               |
|--------------|------------------------------------------------------|--------------------------------------------------|--------------|--------------|--------------|--------------------------------------------------|--------------------------------------------------|---------------|--------------------------------------------------|-----------------|
| - Cle        | $\vdash$                                             |                                                  |              |              | Jack         | $\overline{}$                                    |                                                  |               | 一                                                |                 |
| <del>-</del> | Original                                             |                                                  |              |              |              |                                                  |                                                  |               |                                                  |                 |
| Final        | rigi                                                 |                                                  |              |              |              |                                                  |                                                  |               |                                                  |                 |
| _            | Ō                                                    |                                                  |              |              |              |                                                  |                                                  |               |                                                  |                 |
|              | 101                                                  | H                                                | -            |              |              | -                                                |                                                  |               | _                                                | $\dashv$        |
| -            | 101<br>102                                           | $\vdash$                                         | _            |              |              |                                                  | -                                                | $\overline{}$ | $\vdash$                                         | $\dashv$        |
|              | 103                                                  |                                                  |              |              |              | -                                                | -                                                |               |                                                  | П               |
|              | 104<br>105                                           | Г                                                |              |              |              |                                                  |                                                  |               |                                                  | П               |
|              | 105                                                  |                                                  |              |              |              |                                                  |                                                  |               |                                                  | П               |
|              | 106                                                  |                                                  |              |              |              |                                                  |                                                  |               |                                                  | П               |
| -            | 107                                                  |                                                  |              |              |              |                                                  |                                                  |               |                                                  |                 |
|              | 108                                                  |                                                  |              |              |              |                                                  |                                                  |               |                                                  |                 |
|              | 109                                                  |                                                  |              |              |              |                                                  |                                                  |               |                                                  |                 |
|              | 106<br>107<br>108<br>109<br>110                      |                                                  |              |              |              |                                                  |                                                  |               |                                                  |                 |
|              | 111                                                  |                                                  |              |              |              |                                                  |                                                  |               |                                                  |                 |
|              | 112                                                  | $oxed{\Box}$                                     | $oxed{oxed}$ |              |              |                                                  |                                                  |               | $\Box$                                           |                 |
|              | 113                                                  |                                                  | _            | $oxed{oxed}$ |              |                                                  |                                                  | Ш             |                                                  | Ш               |
|              | 114                                                  | <u> </u>                                         | L            | Щ            |              | Ь.                                               | L                                                | Ш             | Щ.                                               | Ш               |
|              | 115                                                  | <u> </u>                                         | <u> </u>     | ļ            |              | Щ                                                | _                                                | Ш             | <u> </u>                                         | Щ               |
|              | 116                                                  |                                                  | <u> </u>     | <u> </u>     |              |                                                  | $oxed{oxed}$                                     |               | <u> </u>                                         | Ш               |
|              | 117                                                  | $ldsymbol{f eta}$                                | $\vdash$     | oxdot        |              | $\vdash$                                         | <u> </u>                                         | Ш             | <u> </u>                                         | Ш               |
|              | 112<br>113<br>114<br>115<br>116<br>117<br>118<br>119 | <b> </b> -                                       | <u> </u>     | <u> </u>     |              | ļ                                                | ļ                                                |               | <u> </u>                                         | dash            |
|              | 119                                                  | ┡                                                | _            | _            | _            | _                                                |                                                  | H             | <u> </u>                                         | Н               |
|              | 120                                                  | <u> </u>                                         | -            | _            |              | <u> </u>                                         |                                                  |               | <b>-</b>                                         |                 |
|              | 121                                                  | ⊢                                                | $\vdash$     | $\vdash$     | _            | H                                                | $\vdash$                                         | $\vdash$      | $\vdash$                                         | Н               |
|              | 122                                                  | -                                                | -            | -            | _            | ⊢                                                | _                                                |               | ┢                                                | Н               |
|              | 123                                                  | <u> </u>                                         | -            |              | -            |                                                  |                                                  |               | -                                                | Н               |
|              | 120<br>121<br>122<br>123<br>124<br>125               | $\vdash$                                         | -            | $\vdash$     | _            | -                                                | _                                                | _             | $\vdash$                                         | $\dashv$        |
|              | 126                                                  | H                                                |              | $\vdash$     |              | Н                                                |                                                  |               | $\vdash$                                         | $\vdash$        |
|              | 127                                                  |                                                  |              |              |              | ┢                                                |                                                  |               | $\vdash$                                         | Н               |
|              | 128                                                  |                                                  |              |              |              |                                                  |                                                  |               |                                                  |                 |
|              | 129                                                  |                                                  |              | Г            |              | Г                                                |                                                  |               |                                                  | П               |
|              | 130                                                  |                                                  |              |              |              |                                                  |                                                  |               |                                                  |                 |
|              | 131                                                  |                                                  |              |              |              |                                                  |                                                  |               |                                                  |                 |
|              | 126<br>127<br>128<br>129<br>130<br>131<br>132        |                                                  |              |              |              |                                                  |                                                  |               |                                                  |                 |
|              | 133                                                  |                                                  | <u> </u>     |              |              |                                                  |                                                  |               |                                                  | Ш               |
|              | 134<br>135                                           |                                                  | L            |              |              | L                                                |                                                  | $oxed{\Box}$  | <u> </u>                                         | Ш               |
|              | 135                                                  |                                                  |              |              |              | <u>L</u>                                         |                                                  |               | <u> </u>                                         | Ш               |
|              | 136                                                  | <u> </u>                                         | <u> </u>     | <u> </u>     |              |                                                  | <u> </u>                                         |               |                                                  | igspace         |
|              | 137<br>138                                           | _                                                | <b> </b>     | $\vdash$     | <u> </u>     | ├—                                               | <u> </u>                                         | <u> </u>      | <u> </u>                                         | $\vdash \vdash$ |
|              | 138                                                  | <u> </u>                                         | <u> </u>     | <u> </u>     | <u> </u>     |                                                  | H                                                | $\vdash$      | _                                                | $\vdash$        |
|              | 139<br>140                                           | -                                                | _            | $\vdash$     |              | <u> </u>                                         | -                                                | $\vdash$      | -                                                | Н               |
|              | 140                                                  | $\vdash$                                         | $\vdash$     | $\vdash$     | <del> </del> | $\vdash$                                         | $\vdash$                                         | -             | $\vdash$                                         | $\vdash \vdash$ |
|              | 141                                                  | $\vdash$                                         | <del> </del> | $\vdash$     | <u> </u>     | <del> </del>                                     | $\vdash$                                         | $\vdash$      | -                                                | $\vdash$        |
|              | 143                                                  | $\vdash$                                         | $\vdash$     | $\vdash$     | -            | $\vdash$                                         |                                                  | H             | <del> </del>                                     | $\vdash$        |
|              | 144                                                  | ┢                                                | -            | $\vdash$     |              | ┢                                                | <del>  -</del>                                   | $\vdash$      | <del>                                     </del> | $\vdash \vdash$ |
|              | 145                                                  | $\vdash$                                         | $\vdash$     | 一            | $\vdash$     | $\vdash$                                         | $\vdash$                                         |               | <del>  -</del>                                   | Н               |
|              | 146                                                  | $\vdash$                                         | T            | $\vdash$     | $\vdash$     | <del>                                     </del> | <del>                                     </del> | $\vdash$      | $\vdash$                                         | $\vdash \vdash$ |
|              | 147                                                  | $\vdash$                                         | $\vdash$     | $\vdash$     | Н            | $\vdash$                                         | $\vdash$                                         | $\vdash$      | $\vdash$                                         | H               |
|              | 148                                                  | <del>                                     </del> |              | <u> </u>     | <u> </u>     | l                                                | T                                                |               | Т                                                | Н               |
|              | 149                                                  | <u> </u>                                         | Γ            |              |              | Г                                                |                                                  | Г             | T                                                | $\vdash$        |
|              | 150                                                  |                                                  | Г            |              |              |                                                  |                                                  |               | T                                                | П               |
|              |                                                      |                                                  |              |              |              |                                                  |                                                  | _             | _                                                |                 |